



HITACHI

HICOMSCAN DATA TABLET DIGITIZER HDG SERIES.

Hitachi meets your requirements for digital data expertly.



NAE-016A

HICOMSCAN meets your requirements for into digital data easily...accurately...a

HICOMSCAN can digitize any drawing with no more effort than it takes to touch the stylus to any position on a map, chart, diagram, circuit design or any other physical presentation. Flexibility is incorporated throughout the design to make it a highly practical and cost-efficient direct-data input into a computer for service covering many different professional fields. In addition to its high performance and excellent stability, HICOMSCAN is compact so it saves valuable space on top of time, effort and cost.

Feature checklist:

High Accuracy:

$\pm 0.15\text{mm}$ with the free-moving cursor and $\pm 0.3\text{mm}$ with the pen-type stylus for all tablet sizes.

High Stability:

HICOMSCAN operates on the principle of electromagnetic induction, so it is uninfluenced by such external disturbances as drafts, temperature, humidity and vibration. In addition, its ability to perform uninfluenced by electrical interference makes it an ideal computer terminal.

Upkeep Is Easy:

A self-diagnostic function enables servicing personnel to locate a fault immediately in the rare event of trouble occurrence.

Absolute Digitalizing:

Absolute digitalizing assures you of immediate location and relocation of coordinates.

HICOMSCAN Is Compact:

The controller is housed inside the tablet to keep the space requirement to a bare minimum.

Here are just a few of its wide-ranging applications:

ENGINEERING:

HICOMSCAN can be used as a data input for civil engineering quality computations, architectural design charts, circuit designs, pattern recognition, artwork for printed circuit boards, analysis of distortion/vibration waveforms and for piping/power distribution designs to name only a few many engineering uses.

PHYSICS:

HICOMSCAN can be used for data analysis of meteorological maps, parameter analysis charts and satellite-orbit charts. Analysis of underground-water/ocean observation data is also among its many uses.



converting large volumes of graphic data and without consuming a lot of space.

MEDICAL TREATMENT:

HICOMSCAN can be specified for analysis of electrocardiograms, electroencephalograms, dose distribution charts and X-ray photographs.

MATHEMATICS:

HICOMSCAN can be used for Fourier analysis, vector analysis and other types of value analysis.

MANAGEMENT:

In business, HICOMSCAN is an efficient data input for marketing management, process management and for inventory control.

In each of these and other professional applications, there is matching software to support and key HICOMSCAN to the job.

High-performance software rounds out the HICOMSCAN system.

Two highly efficient controllers round out the HICOMSCAN SYSTEM for converting graphic data into digital data: The HDC-1000 Processor with Display and the HDC-2000 Processor.

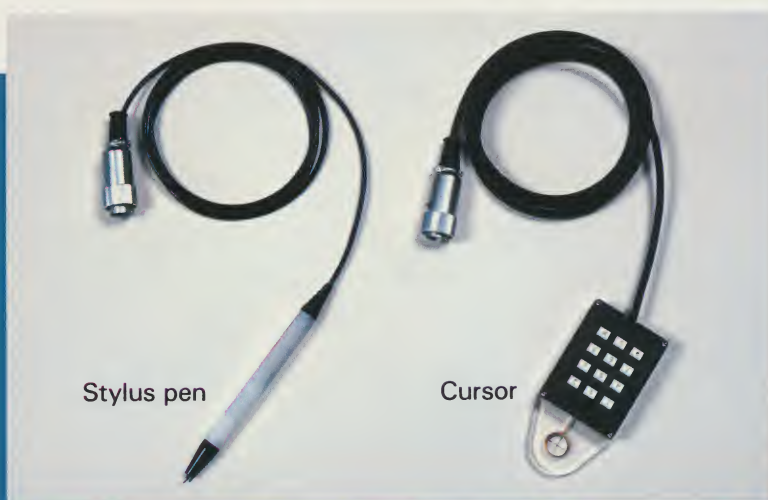
HDC-1000 is a simplified version of an output controller and features oversize display and easy connection to PTP and TTY.

HDC-2000 allows coordinate conversion processing and extended input/output processing.

Both processors are designed to assure immunity against adverse external influences, while Hitachi's modular concept for both hardware and software allows easy expandability.

Specifications:

	HICOMSCAN		
Model	HDC-403	HDC-606	HDC-1209
Effective readout area (mm)	16"×12" (420×300)	22"×22" (560×560)	48"×36" (1220×915)
Resolution (mm)	0.001" (0.025 mm)		
Readout accuracy (mm)	±0.01" (±0.25 option ±0.15)		
Readout speed (P/S)	200		
Pickup	Free cursor or stylus pen		
Output format	Absolute coordinate values		
Temperature range	0°~45°C		



HICOMSCAN Software

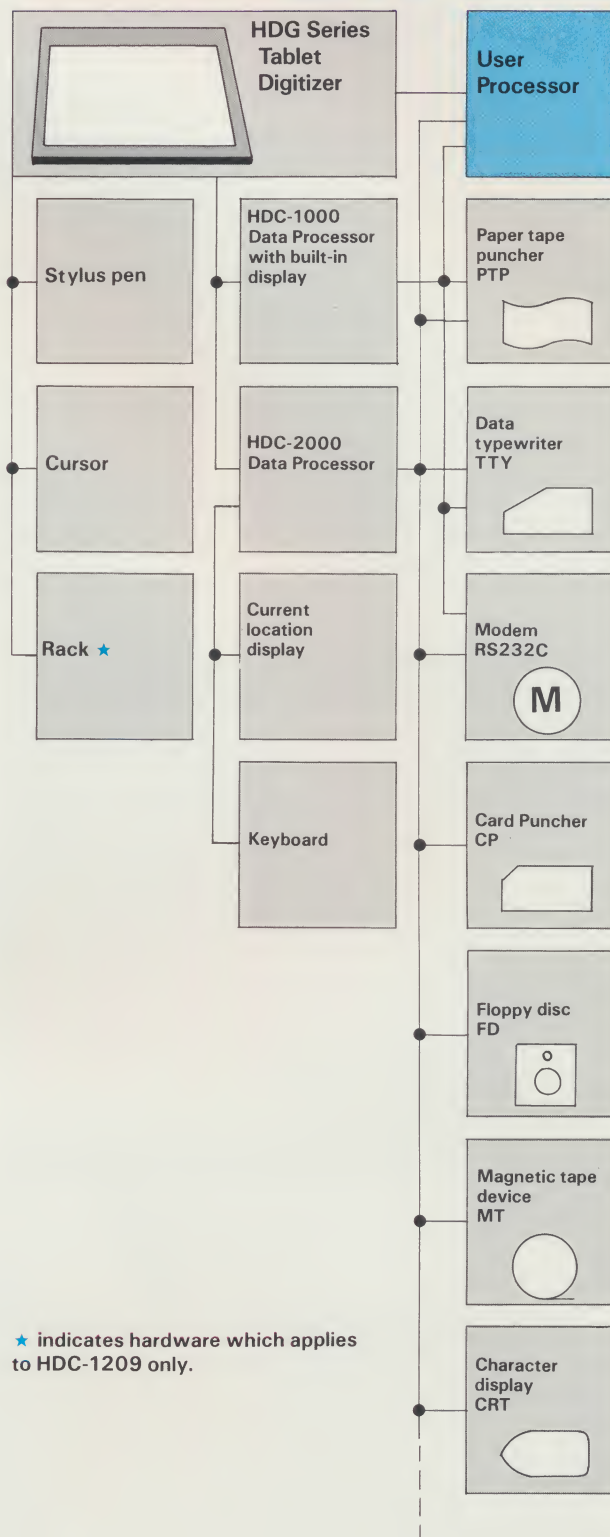
Coordinates conversion module

Floating zero	Establishes any desired point as the origin in a coordinate system.
Angle Compensation	Provides two certain X-axis points as input data and determines a coordinate system which matches the medium used.
Grid-on	Specifies two certain points and divided-figures, and divides the digitized surface into specific grids.
Scale	Specifies grid pitch and divides the digitized surface into specific grids.
Allowance	Determines a blind sector in abovementioned "Grid-on" and "Scale" and prevents erroneous reading.
Calibration	Provides two specific points and a real value as input data, and compensates for expansion or contraction that takes place on the medium used.
Conversion of coordinates	Replaces $X \leftrightarrow Y$ or $+ \leftrightarrow -$, and converts quadrants.

Function Module

Axis fixation	Fixes one axis as fixed data.
Line length computation	Computes length of straight lines and curves.
Area computation	Computes area of a closed curve.
Contraction/expansion	Provides the contraction scale of a graphic chart as input data, and establishes a contraction or expansion.
Macro-command	Preregisters specific graphic patterns and allows retrieval as output data at any desired location.
Menu analysis	Sorts menu sheets according to user criteria and allows retrieval as output data.
Comments	Provides desired additional comments to coordinate output data.
Unit conversion	Converts measurement units, e.g. from metric to inch system.

HICOMSCAN Hardware



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